

P ENT COOPERATION TREA

PCT

NOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

From the INTERNATIONAL BUREAU

To:

OTTEVANGERS, S., U.
Vereenigde
Nieuwe Parklaan 97
NL-2587 BN The Hague
PAYS-BAS

Date of mailing (day/month/year) 19 May 2000 (19.05.00)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference P10462PC00	
International application No. PCT/NL99/00605	International filing date (day/month/year) 29 September 1999 (29.09.99)

1. The following indications appeared on record concerning:									
<input type="checkbox"/> the applicant	<input type="checkbox"/> the inventor								
<input checked="" type="checkbox"/> the agent	<input type="checkbox"/> the common representative								
Name and Address OTTEVANGERS, S., U. Vereenigde Octrooibureaux Nieuwe Parklaan 97 NL-2587 BN The Hague Netherlands	<table border="1"> <tr> <td>State of Nationality</td> <td>State of Residence</td> </tr> <tr> <td colspan="2">Telephone No. 070-41 66 711</td> </tr> <tr> <td colspan="2">Facsimile No. 070-41 66 799</td> </tr> <tr> <td colspan="2">Teleprinter No.</td> </tr> </table>	State of Nationality	State of Residence	Telephone No. 070-41 66 711		Facsimile No. 070-41 66 799		Teleprinter No.	
State of Nationality	State of Residence								
Telephone No. 070-41 66 711									
Facsimile No. 070-41 66 799									
Teleprinter No.									
2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:									
<input type="checkbox"/> the person	<input type="checkbox"/> the name								
<input checked="" type="checkbox"/> the address	<input type="checkbox"/> the nationality								
<input type="checkbox"/> the residence									
Name and Address OTTEVANGERS, S., U. Vereenigde Nieuwe Parklaan 97 NL-2587 BN The Hague Netherlands	<table border="1"> <tr> <td>State of Nationality</td> <td>State of Residence</td> </tr> <tr> <td colspan="2">Telephone No. 070-41 66 711</td> </tr> <tr> <td colspan="2">Facsimile No. 070-41 66 799</td> </tr> <tr> <td colspan="2">Teleprinter No.</td> </tr> </table>	State of Nationality	State of Residence	Telephone No. 070-41 66 711		Facsimile No. 070-41 66 799		Teleprinter No.	
State of Nationality	State of Residence								
Telephone No. 070-41 66 711									
Facsimile No. 070-41 66 799									
Teleprinter No.									
3. Further observations, if necessary:									
4. A copy of this notification has been sent to:									
<input checked="" type="checkbox"/> the receiving Office	<input checked="" type="checkbox"/> the designated Offices concerned								
<input type="checkbox"/> the International Searching Authority	<input type="checkbox"/> the elected Offices concerned								
<input type="checkbox"/> the International Preliminary Examining Authority	<input type="checkbox"/> other:								

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer Marie-José Devillard Telephone No.: (41-22) 338.83.38
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PATENT COOPERATION TREATY

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Assistant Commissioner for Patents
 United States Patent and Trademark
 Office
 Box PCT
 Washington, D.C. 20231
 ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

Date of mailing (day/month/year) 29 May 2000 (29.05.00)	
International application No. PCT/NL99/00605	Applicant's or agent's file reference P10462PC00
International filing date (day/month/year) 29 September 1999 (29.09.99)	Priority date (day/month/year) 30 September 1998 (30.09.98)
Applicant ROFFELSEN, Franciscus	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:

05 April 2000 (05.04.00)

☐ in a notice effecting later election filed with the International Bureau on:2. The election ☒ was☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer S. Mafla Telephone No.: (41-22) 338.83.38
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PATENT COOPERATION TREATY

PCT

REC'D 22 JAN 2001

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P10462PC00	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/NL99/00605	International filing date (day/month/year) 29/09/1999	Priority date (day/month/year) 30/09/1998
International Patent Classification (IPC) or national classification and IPC F16K15/14		
Applicant SPIRO RESEARCH B.V. et al.		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 4 sheets, including this cover sheet.



☒ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 2 sheets.

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3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 05/04/2000	Date of completion of this report 18.01.2001
Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized officer Heneghan, M Telephone No. +49 89 2399 8544 

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/NL99/00605

I. Basis of the report

1. This report has been drawn on the basis of *(substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments (Rules 70.16 and 70.17).):*

Description, pages:

1-8 as originally filed

Claims, No.:

1-7 as received on 15/11/2000 with letter of 15/11/2000

Drawings, sheets:

1/2,2/2 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
- ☐ the claims, Nos.:

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. PCT/NL99/00605

☐ the drawings, sheets:

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes:	Claims	1-7
	No:	Claims	
Inventive step (IS)	Yes:	Claims	1-7
	No:	Claims	
Industrial applicability (IA)	Yes:	Claims	1-7
	No:	Claims	

2. Citations and explanations
see separate sheet

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Independent claim 1

1. The subject matter of independent claim 1 of the present application is considered to be novel and inventive (Article 33(2) & (3) PCT) for the following reasons :
 - 1.1. Claim 1 differs from the prior art document D2 : DE 201161 in that in claim 1 :
the circumferential edges are **steplessly** settable by a setting mechanism so as to be displaceable and lockable relative to each other.
The subject matter of claim 1 is therefore novel (Article 33(2) PCT).
 - 1.2. The technical effect achieved by this difference is that the valve can be easily adjusted without the need for disassembly.
 - 1.3. Starting from D2 and considering the rest of the prior art, there is no indication that would lead the person skilled in the art to contemplate modifying the valve of D2 such that adjustment of the circumferential edges relative to each other would be stepless and it is, therefore, not obvious.

Dependent claims 2 to 7

2. Claims 2 to 7 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

EPO - DG 1

15. 11. 2000

New Page 8

Claims

(75)

1. A non-return valve (1; 11; 21; 51; 71) comprising a valve member (2; 12; 22, 32; 52; 72) having a circumferential face and a channel (3, 4; 13, 14; 23, 24, 33, 34; 53, 54; 73, 74) with a mouth on either side, the mouth at one end of the channel being sealable by a valve element (9; 19; 29, 39; 59; 79) capable of releasing said one mouth at a predetermined pressure in the channel higher than an ambient pressure, said valve element comprising an O-ring manufactured from an elastic material, such as a rubber or a resilient plastic, and said one mouth of the channel being located in a groove (7; 17; 27, 37; 66) sealed by the valve element and having circumferential edges provided on parts which are adjustable and fixable relative to each other, characterized by a setting mechanism (6b, 6c; 16; 26; 63, 64; 77, 80) for steplessly setting the circumferential edges such that they are lockable and displaceable relative to each other.
2. A non-return valve according to claim 1, characterized in that the setting mechanism (6b, 6c; 16; 26; 63, 64; 77, 80) comprises a screw connection whereby one circumferential edge is displaceable relative to the other circumferential edge.
3. A non-return valve according to claim 1 or 2, characterized in that at least one further ring (62) is provided in the groove, freely displaceable relative to the groove walls, so that the groove is subdivided into several gaps (66) all shut off by an O-ring (59).
4. A non-return valve according to claim 3, characterized in that each further ring is an O-ring (78).
5. A non-return valve according to claim 4, characterized in that an O-ring (78) that forms a further ring has a greater diameter than an O-ring (79) that forms a valve element.
6. A non-return valve according to any one of the preceding claims, characterized in that a screening cap (40; 60; 81) connected to the valve member (32; 52; 72) is provided at a distance around the O-ring (39; 59; 79), the interior of said screening cap being in open communication with the environment.

New page 9

7. A non-return valve according to any one of the preceding claims, characterized in that between the mouths on either side of the channel (33), a further mouth is provided which is sealable by means of a further O-ring (29) and communicates with a further channel (23) having a second mouth which is
- 5 located outside the channel (33).

PATENT COOPERATION TREATY

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From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT (PCT Rule 71.1)

To:

PRINS, A.W.
VEREENIGDE

Nieuwe Parklaan 97
NL-2587 BN The Hague

PAYS-BAS

24 JAN. 2001

NRT₂ 30-3-2001

bericht gezonden

aan 27/2

Applicant's or agent's file reference

P10462PC00

Date of mailing
(day/month/year)

18.01.2001

IMPORTANT NOTIFICATION

International application No.
PCT/NL99/00605

International filing date (day/month/year)
29/09/1999

Priority date (day/month/year)
30/09/1998

Applicant

SPIRO RESEARCH B.V. et al.

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/



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Authorized officer

Stafl, C

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